What’s new in patient monitoring?

Chair: Thomas Scheeren* (Groningen, Netherlands)

Are we ready for noninvasive hemodynamic monitoring?
Michael Sander* (Giessen, Germany)

Can we monitor and target the microcirculation in the perioperative setting?
Jacques Duranteau (Le Kremlin-Bicêtre, France)

How should patients on the normal ward be monitored in 2030?
Wolfgang Buhre* (Maastricht, Netherlands)

Opportunities and challenges with dexmedetomidine

Chair: Stefan Schraag (Clydebank, United Kingdom)

Using dexmedetomidine to prevent and treat delirium and postoperative cognitive dysfunction
Daqing Ma (London, United Kingdom)

Influence of dexmedetomidine on cancer growth and metastasis
Donal J. Buggy (Dublin, Ireland)

Target-controlled infusion for dexmedetomidine
Michel Struys* (Groningen, Netherlands)

Perioperative goal-directed haemodynamic therapy – Current concepts and future directions

**Reserved seats available for the ILT pre-registered delegates

Chair: Thomas Scheeren* (Groningen, Netherlands)

Perioperative goal-directed hemodynamic therapy – Basic concepts and pathophysiological rationale
Bernd Saugel* (Hamburg, Germany)

Perioperative goal-directed hemodynamic therapy – The role of protocol compliance
Michael Sander* (Giessen, Germany)

Perioperative goal-directed haemodynamic therapy in the future – Will everything be non-invasive and "closed loop"?
Alexandre Joosten* (Brussels, Belgium)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Chair</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15:15 - 16:00</td>
<td><strong>Refresher Course</strong>&lt;br&gt;New drugs for anaesthesia: ready to launch?</td>
<td>Stefan Schraag (Clydebank, United Kingdom)</td>
<td>Michel Struys* (Groningen, Netherlands)</td>
</tr>
<tr>
<td>15:15 - 16:00</td>
<td><strong>Lecture</strong>&lt;br&gt;Perioperative Neurocognitive Disorder; nomenclature, research guidelines and best practices</td>
<td>Hugo Vereecke (Brugge, Belgium)</td>
<td>Roderic G. Eckenhoff (Philadelphia, United States)</td>
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<tr>
<td>16:30 - 17:15</td>
<td><strong>Refresher Course</strong>&lt;br&gt;Pharmacology for anaesthesiologists - Principals and pitfalls for the European Diploma in Anaesthesiology and Intensive Care (EDAIC)</td>
<td>Michel Struys* (Groningen, Netherlands)</td>
<td>Philip Hopkins (Leeds, United Kingdom)</td>
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<tr>
<td>16:30 - 17:15</td>
<td><strong>Lecture</strong>&lt;br&gt;Bispectral index, state and response entropy, quantification of consciousness, patient state index: different or more of the same?</td>
<td>Daniela Ionescu* (Cluj Napoca, Romania)</td>
<td>Hugo Vereecke (Brugge, Belgium)</td>
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Biomarkers of Perioperative Neurocognitive Disorder (PND) vulnerability and progression

Chair:
Roderic G. Eckenhoff (Philadelphia, United States)

Can EEG patterns, at baseline or in response to anesthetic drugs, predict PND?
Patrick Purdon (Boston, United States)

What does PET imaging or CSF reveal about the brain’s vulnerability or response to anesthesia and surgery?
Lars I Eriksson (Stockholm, Sweden)

Can fMRI predict how the older brain will respond to stresses like anaesthesia and surgery?
James Ibinson (Pittsburgh, United States)

Progress in the detection and application of central nervous system injury biomarkers in biofluids
Kaj Blennow (Gothenburg, Sweden)

Novel biomarkers of neurodegeneration
Roderic G. Eckenhoff (Philadelphia, United States)

Practical ethical issues in perioperative medicine

Chair:
Antoine Baumann (Le Kremlin-Bicêtre, France)

Can women in labour give informed consent to epidural analgesia?
Alexandra Schyns-Van Den Berg (Dordrecht, Netherlands)

Parent/medical team conflicts in the management of children
Paul McConnell (Paisley, United Kingdom)

How to say that we need to cancel your operation?
Louise Denholm (Paisley, United Kingdom)

Consciousness, unconsciousness and general anaesthesia

Chair:
Michel Struys* (Groningen, Netherlands)

Measuring consciousness
Pedro Gambus* (Barcelona, Spain)

How do general anaesthetics cause unconsciousness?
Hugh Hemmings* (New York, United States)

Breakthrough awareness during surgery: can we detect and prevent it?
Aeyal Raz* (Haifa, Israel)
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<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>0156</td>
<td>Symposium 60'</td>
<td>Sunday, 31 May</td>
<td>09:30 - 10:30</td>
<td><strong>Opportunities and challenges for new hypnotics</strong></td>
<td>Goya</td>
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<tr>
<td>01L3</td>
<td>Lecture</td>
<td>Sunday, 31 May</td>
<td>11:00 - 11:45</td>
<td><strong>Hot topics in general anaesthesiology - Last 12 months' top publications</strong></td>
<td>Dalí</td>
</tr>
<tr>
<td>0157</td>
<td>Symposium 60'</td>
<td>Sunday, 31 May</td>
<td>11:00 - 12:00</td>
<td><strong>Outbreak risk! Providing surgery, anaesthesia &amp; perioperative care in patients with suspected coronavirus (SARS, CoViD-19) or ebola virus disease (EVD)</strong></td>
<td>Picasso</td>
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<tr>
<td>0158</td>
<td>Symposium 60'</td>
<td>Sunday, 31 May</td>
<td>14:00 - 15:00</td>
<td><strong>The role of perioperative echocardiography in 2020</strong></td>
<td>Goya</td>
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**Chair:**
- **Philip Hopkins** (Leeds, United Kingdom)
- **Anthony Absalom** (Groningen, Netherlands)
- **Jannicke Mellin-Olsen** (Rud, Norway)
- **Jean-Luc Fellahi** (Lyon, France)

**Remimazolam for general anaesthesia and sedation**
- **Joerg Fechner** (Erlangen, Germany)

**Can a drug be better than propofol?**
- **Stefan Schraag** (Clydebank, United Kingdom)

**Should we look outside the GABA receptor for new hypnotics?**
- **J. Robert Sneyd** (Plymouth, United Kingdom)

**Speaker:**
- **Andreas Hoeft** (Bonn, Germany)

**Guidelines for anaesthesia and perioperative care in the context of a coronavirus outbreak**
- **Davy Cheng** (London, Canada)

**Impact of endemic ebola virus disease on surgery and anaesthesia care: WHO perspective**
- **Walter Johnson** (Geneva, Switzerland)

**WHO guidelines on surgery, obstetrics, and anaesthesia care in the context of EVD infection**
- **Janet Martin** (London, Canada)

**Preoperative echocardiography assessment: what should I look for?**
- **Nick Fletcher** (London, United Kingdom)

**The role of perioperative echocardiography in 2020**
- **Michelle Chew** (Linkoping, Sweden)

**The impact of diastolic dysfunction in the perioperative period**
- **Filippo Sanfilippo** (Catania, Italy)
Participants who have declared a “conflict of interest” are indicated with an asterisk (*) next to their name.
### Hypotension, organ injury and outcomes

Session organised by the British Journal of Anaesthesia (BJA)

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<tr>
<td>Hugh Hemmings* (New York, United States)</td>
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#### Perioperative blood pressure and outcomes: what perioperative quality initiative has to say

Monty Mythen* (London, United Kingdom)

#### Role of perioperative hypotension in myocardial injury

Duminda Wijesundera (Toronto, Canada)

#### Monitoring approaches to minimizing organ injury

Christa Boer (Amsterdam, Netherlands)

### Artificial intelligence in perioperative medicine – Current concepts and future directions

Chair: Oliver Kimberger* (Vienna, Austria)

#### Big data, artificial intelligence, machine learning – What do these "buzz words" really mean?

Frédéric Michard* (Denens, Switzerland)

#### We need "perioperative intelligence" to use artificial intelligence in perioperative medicine

Kamal Maheshwari* (Cleveland, United States)

#### How to use artificial intelligence in perioperative care – Practical examples

Oliver Kimberger* (Vienna, Austria)